

Crosslinkable composition for a battery electrolyte

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Abstract

10 The field of the present invention relates to the field of batteries and of polymer electrolytes for batteries and more particularly to the field of lithium batteries.

The invention relates to a composition which can be polymerized and/or crosslinked by dehydrocondensation for a battery electrolyte comprising:

- 15 a) at least one organohydropolysiloxane (POS) (A) having, per molecule, at least 2 hydrogen atoms directly bonded to silicon atoms;
- b) at least one organohydroxypolysiloxane (POS) (B) having, per molecule, at least 2 –OH groups directly bonded to silicon atoms;
- c) an effective amount of a dehydrocondensation catalyst (C); and
- 20 d) at least one electrolyte salt (D);
- with the condition that the POS (A) and/or the POS (B) comprise(s), per molecule, at least one siloxyl unit comprising at least one group directly bonded to a silicon atom comprising a polyoxyalkylene (Poa) ether functional group.

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No figure.